

Recombinant Human MYBPC3 protein, His & GST-tagged

Cat. No. MYBPC3-8230H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYBPC3 aa. (Met1~Ala328 (Accession # Q14896)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Ala328
Description	MYBPC3 encodes the cardiac isoform of myosin-binding protein C. Myosin-binding protein C is a myosin-associated protein found in the cross-bridge-bearing zone (C region) of A bands in striated muscle. MYBPC3, the cardiac isoform, is expressed exclusively in heart muscle. Regulatory phosphorylation of the cardiac isoform in vivo by cAMP-dependent protein kinase (PKA) upon adrenergic stimulation may be linked to modulation of cardiac contraction. Mutations in MYBPC3 are one cause of familial hypertrophic cardiomyopathy.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 64.8kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 6.1.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

GENE INFORMATION

Gene Name	MYBPC3 myosin binding protein C, cardiac [Homo sapiens (human)]
Official Symbol	MYBPC3
Synonyms	MYBPC3; myosin binding protein C, cardiac; FHC; CMH4; CMD1MM; LVNC10; MYBP-C; myosin-binding protein C, cardiac-type; C-protein, cardiac muscle isoform; truncated cardiac myosin-binding protein C
Gene ID	4607

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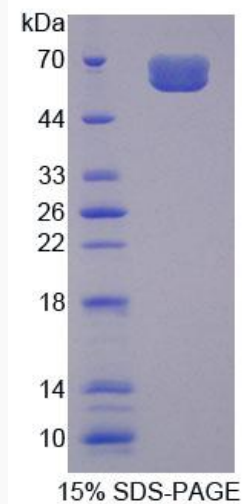
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mRNA Refseq NM_000256.3

Protein Refseq NP_000247.2

UniProt ID Q14896

SDS-PAGE



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